

AMENDMENTS TO THE CLAIMS

The following is a complete listing of the claims, which replace all previous versions and listings of the claims.

Claims 1-17 (cancelled)

18. (currently amended) A pulse oximetry sensor comprising:

a headcovering;

a substrate disposed on the headcovering;

an emitter disposed on the substrate;

a detector disposed on the substrate; and

a cable disposed on the substrate, wherein the cable extends from the substrate at an angle
not in-line with an imaginary axis extending through the emitter and the detector.

19. (previously presented) The sensor of claim 18, wherein the cable is disposed on the substrate in a substantially orthogonal direction relative to the axis.

20. (previously presented) The sensor of claim 18, wherein the cable is disposed on the substrate such that the cable substantially bisects the emitter and the detector.

21. (currently amended) The sensor of claim ~~18~~ 20, wherein the substrate comprises a T-shape.

22. (previously presented) The sensor of claim 18, wherein the sensor is adapted to operate in a reflectance mode.

23. (previously presented) The sensor of claim 18, wherein the substrate is adapted to be used on a patient's forehead.

24. (currently amended) The sensor of claim 18, wherein the ~~substrate is adapted to be attached to a headcovering~~ comprises a neonatal stocking cap.

25. (currently amended) The sensor of claim ~~24~~ 18, wherein the headcovering comprises a headband, a hat, or a cap.

26. (previously presented) The sensor of claim ~~24~~ 18, wherein the substrate comprises an adhesive layer adapted to attach the substrate to the headcovering.

27. (withdrawn) A pulse oximetry sensor adapted for use on a patient's forehead comprising:

a substrate conformable to a patient's forehead, wherein the substrate is substantially arcuate when flattened against a planar surface;

an emitter disposed on a substrate; and

a detector disposed on the substrate.

28. (withdrawn) The sensor of claim 27, wherein the substrate is conformable to a forehead-contacting surface of a headcovering.

29. (withdrawn) The sensor of claim 28, wherein the headcovering comprises a headband, a hat, or a cap.

30. (withdrawn) The sensor of claim 28, wherein the substrate is adapted to be attached to the headcovering.

31. (withdrawn) The sensor of claim 28, wherein the substrate comprises one or more alignment indicia for attaching the substrate to the headcovering.

32. (withdrawn) The sensor of claim 28, wherein the substrate comprises an adhesive layer adapted to attach the substrate to the headcovering.

33. (withdrawn) The sensor of claim 28, wherein the headcovering comprises one or more alignment indicia for aligning the substrate to a predetermined position on the patient's forehead.

34. (withdrawn) The sensor of claim 33, wherein the predetermined position comprises a lower forehead region.

35. (withdrawn) The sensor of claim 33, wherein the predetermined position comprises a position substantially centering the emitter and the detector above a patient's iris.

36. (withdrawn) The sensor of claim 33, wherein the predetermined position comprises a position wherein the emitter and the detector are lateral to a patient's iris.

37. (currently amended) A headcovering comprising:

a neonatal stocking cap; and

a pulse oximetry sensor, wherein the pulse oximetry sensor comprises:

a substrate;

an emitter disposed on a substrate;

a detector disposed on the substrate; and

a cable disposed on the substrate, wherein the cable is adapted to extend from the

substrate through a an open portion of the neonatal stocking cap

~~headcovering~~ that corresponds to a top of a patient's head when the

~~headcovering~~ neonatal stocking cap is applied to the patient.

38. (previously presented) The sensor of claim 37, wherein the substrate is conformable to a forehead-contacting surface of the headcovering.

39. (cancelled)

40. (cancelled)

41. (currently amended) The sensor of claim 37, wherein the cable is embedded within the ~~headcovering~~ neonatal stocking cap.

42. (previously presented) The sensor of claim 37, wherein the substrate is adapted to be attached to the headcovering.

43. (previously presented) The sensor of claim 37, wherein the substrate comprises an adhesive layer adapted to attach the substrate to the headcovering.

44. (new) The sensor of claim 37, wherein the cable is secured by tying a portion of the neonatal stocking cap around the cable.